



6692 sequencesST25.txt  
SEQUENCE LISTING

<110> Novo Nordisk A/S

<120> Novel GLP-1 derivatives

<130> 6692-WO

<160> 5

<170> PatentIn version 3.1

<210> 1

<211> 31

<212> PRT

<213> Homo sapiens

<400> 1

His Ala Glu Gly Thr Phe Thr Ser Asp Val Ser Ser Tyr  
Leu Glu Gly  
1 5 10  
15

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Gln Ala Ala Lys Glu Phe Ile Ala Trp Leu Val Lys Gly  
 Arg Gly 20 25 30

<210> 2

<211> 40

<212> PRT

<213> Synthetic construct

<220>

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<222> (1)..(1)

<223> Xaa at position 1 is L-histidine, D-histidine,  
 desamino-histidine,  
 , 2-amino-histidine, beta-hydroxy-histidine,  
 homohistidine, N-alp  
 ha-acetyl-histidine,  
 alpha-fluoromethyl-histidine, alpha-methyl-h  
 istidine, 3-pyridylalanine, 2-pyridylalanine,  
 or 4-pyridylalanine  
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<220>

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<222> (2)..(2)

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<223> Xaa at position 2 is Ala, Gly, Val, Leu, Ile,  
Lys, Aib, (1-aminocyclopropyl) carboxylic acid,  
(1-aminocyclobutyl) carboxylic acid,  
(1-aminocyclopentyl) carboxylic acid,  
(1-aminocyclohexyl) carboxylic acid, (1-aminocycloheptyl) carboxylic acid  
or (1-aminocyclooctyl) carboxylic acid.

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<222> (10)..(10)

<223> Xaa at position 10 is Val or Leu.

<220>

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<222> (12)..(12)

<223> Xaa at position 12 is Ser, Lys or Arg.

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<222> (13)..(13)

<223> Xaa at position 13 is Tyr or Gln.

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<222> (14)..(14)

<223> Xaa at position 14 is Leu or Met.

<220>

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<222> (16)..(16)

<223> Xaa at position 16 is Gly, Glu or Aib.

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<222> (17)..(17)

<223> Xaa at position 17 is Gln, Glu, Lys or Arg.

<220>

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<222> (19)..(19)

<223> Xaa at position 19 is Ala or Val.

6692 sequencesST25.txt

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<222> (20)..(20)

<223> Xaa at position 20 is Lys, Glu or Arg.

<220>

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<222> (21)..(21)

<223> Xaa at position 21 is Glu or Leu.

<220>

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<222> (24)..(24)

<223> Xaa at position 24 is Ala, Glu or Arg.

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<222> (27)..(27)

<223> Xaa at position 27 is Val or Lys.

<220>

6692 sequencesST25.txt

<221> MISC\_FEATURE  
<222> (28)..(28)  
<223> Xaa at position 28 is Lys, Glu, Asn or Arg.

<220>  
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<222> (29)..(29)  
<223> Xaa at position 29 is Gly or Aib.

<220>  
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<222> (30)..(30)  
<223> Xaa at position 30 is Arg, Gly or Lys.

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<222> (31)..(31)  
<223> Xaa at position 31 is Gly, Ala, Glu, Pro, Lys,  
amide or is absent  
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<222> (32)..(32)

<223> Xaa at position 32 is Lys, Ser, amide or is absent.

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<222> (33)..(33)

<223> Xaa at position 33 is Ser, Lys, amide or is absent.

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<222> (34)..(34)

<223> Xaa at position 34 is Gly, amide or is absent.

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<222> (35)..(35)

<223> Xaa at position 35 is Ala, amide or is absent.

6692 sequencesST25.txt

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<222> (36)..(36)

<223> Xaa at position 36 is Pro, amide or is absent.

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<222> (37)..(37)

<223> Xaa at position 37 is Pro, amide or is absent.

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<222> (38)..(38)

<223> Xaa at position 38 is Pro, amide or is absent.

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<222> (39)..(39)

<223> Xaa at position 39 is Ser, amide or is absent.



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<222> (40)..(40)

<223> xaa at position 40 is amide or is absent.

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Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Xaa Ser Xaa Xaa

Xaa Glu Xaa

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5

10

15

Xaa Ala Xaa Xaa Xaa Phe Ile Xaa Trp Leu Xaa Xaa Xaa

Xaa Xaa Xaa

20

25

30

Xaa Xaa Xaa Xaa Xaa Xaa Xaa Xaa

35

40

<210> 3

<211> 32

<212> PRT

<213> Synthetic construct

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<221> MISC\_FEATURE

6692 sequencesST25.txt

<222> (1)..(1)

<223> Xaa at position 1 is L-histidine, D-histidine, desamino-histidine, 2-amino-histidine, beta-hydroxy-histidine, homohistidine, N-alpha-acetyl-histidine, alpha-fluoromethyl-histidine, alpha-methyl-histidine, 3-pyridylalanine, 2-pyridylalanine, or 4-pyridylalanine.

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<222> (2)..(2)

<223> Xaa at position 2 is Ala, Gly, Val, Leu, Ile, Lys, Aib, (1-aminocyclopropyl) carboxylic acid, (1-aminocyclobutyl) carboxylic acid, (1-aminocyclopentyl) carboxylic acid, (1-aminocyclohexyl) carboxylic acid, (1-aminocycloheptyl) carboxylic acid or (1-aminocyclooctyl) carboxylic acid.

<220>

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<222> (12)..(12)

<223> Xaa at position 12 is Ser, Lys or Arg.

6692 sequencesST25.txt

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<221> MISC\_FEATURE

<222> (16)..(16)

<223> Xaa at position 16 is Gly, Glu or Aib.

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<221> MISC\_FEATURE

<222> (17)..(17)

<223> Xaa at position 17 is Gln, Gly, Lys or Arg.

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<222> (20)..(20)

<223> Xaa at position 20 is Lys, Glu or Arg.

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<222> (24)..(24)

<223> Xaa at position 24 is Ala, Glu or Arg.

6692 sequencesST25.txt

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<221> MISC\_FEATURE

<222> (28)..(28)

<223> Xaa at position 28 is Lys, Glu or Arg.

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<222> (29)..(29)

<223> Xaa at position 29 is Gly or Aib.

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<221> MISC\_FEATURE

<222> (30)..(30)

<223> Xaa at position 30 is Arg or Lys..

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<221> MISC\_FEATURE

<222> (31)..(31)

<223> Xaa at position 31 is Gly, Ala, Glu or Lys.

6692 sequencesST25.txt

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<222> (32)..(32)

<223> xaa at position 32 is Lys, amide or is absent.

<400> 3

Xaa Xaa Glu Gly Thr Phe Thr Ser Asp Val Ser Xaa Tyr

Leu Glu Xaa

1

5

10

15

Xaa Ala Ala Xaa Glu Phe Ile Xaa Trp Leu Val Xaa Xaa

Xaa Xaa Xaa

20

25

30

<210> 4

<211> 39

<212> PRT

<213> Gila monster

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<222> (39)..(39)

<223> Amidation of carboxy group.

6692 sequencesST25.txt

<400> 4

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln  
Met Glu Glu  
1 5 10  
15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly  
Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Pro Ser  
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<210> 5

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<212> PRT

<213> Synthetic construct

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<222> (44)..(44)

<223> Amidation of carboxy group.

6692 sequencesST25.txt

<400> 5

His Gly Glu Gly Thr Phe Thr Ser Asp Leu Ser Lys Gln  
Met Glu Glu  
1 5 10  
15

Glu Ala Val Arg Leu Phe Ile Glu Trp Leu Lys Asn Gly  
Gly Pro Ser  
20 25 30

Ser Gly Ala Pro Pro Ser Lys Lys Lys Lys Lys Lys  
35 40